

DS90
012

CRF Errors Corrected by the STIC Systems Branch

OPE

Serial Number: 03/846,589CRF Processing Date: _____
Edited by: _____
Verified by: _____ (STIC sta:

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically: **ENTERED**
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included: _____
- Deleted extra, invalid, headings used by an applicant, specifically: _____
- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file;
 page numbers throughout text; other invalid text, such as _____
- Inserted mandatory headings, specifically: _____
- Corrected an obvious error in the response, specifically: _____
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically: _____
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001
TIME: 16:27:17

Input Set : A:\Cpg.pto
Output Set: C:\CRF3\05242001\I846589.raw

3 <110> APPLICANT: Famodu, Layo O.
4 Simmons, Carl R.
6 <120> TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
8 <130> FILE REFERENCE: BB-1191
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/846,589
C--> 11 <141> CURRENT FILING DATE: 2001-05-01
13 <150> PRIOR APPLICATION NUMBER: 60/092,866
W--> 14 <151> PRIOR FILING DATE: July 15, 1998
16 <160> NUMBER OF SEQ ID NOS: 29
18 <170> SOFTWARE: Microsoft Office 97
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1948
22 <212> TYPE: DNA
23 <213> ORGANISM: Zea mays
25 <400> SEQUENCE: 1
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27 agcctccacc cgcctccctct gcccggccg gagaggaact cgtcgctgac cttccggcc 120
28 ctaccctcaag caagaaggcag cagaagaagg acgcggaggaa ggcggagaag gcagagcagc 180
29 gccagcgtca gcagcagcag cagcagcagc cggccggacgc cgaggacccg ttcggccca 240
30 actacggcga ggtcccggtc gaggagatcc agtcaaaggc catctccggc cgctcggt 300
31 cccatgtcggc cgacctcgac gactccgtc cggccgcgtc cgtgcttatac cgcggagccg 360
32 cgcaggccat ccgtccggtc agcaagaaga tggcttcgt cgtgctgoc cagagtatga 420
33 gcaccgtgca gtgcgtgctc gtcgccagcg ccgacgcccgg cgtcagcacg cagatggtgc 480
34 gttcgccac cgcctcaagc aaggagtca tcgtcgacgt tgaggccgtc gtctccctcc 540
35 caaaggagcc cctcaaggcc accacacagc aggttgagat ccaagtgagg aagatctatt 600
36 gcatcaatag ggctattccg acccttccaa ttaaccttga agatcggtc cggagtgagg 660
37 cagattttga gaaggctgaa ttggctggag aaaagcttgt tcgcgttggc caagatacc 720
38 gcttgaacta cagagctatt gatctacgaa caccctcgaa tcaagccata ttccggatcc 780
39 agtgtcaagt tgaaaaacaaa ttttagagatt ttttgggtgc gaagaacttt gtcgggatcc 840
40 acaccccaaa attgatttct gatcttagt aaggggggtgc ggctgtattc aagttctgt 900
41 acaatggtca acctgttgtt ttggcacaat cccctcagtt atacaagcaa atggctatct 960
42 ctggtggttt tgagcgtgat tttgggtgc gcccgtgtt tagagcgtaa aattcaaaca 1020
43 cacacaggca tctatgtgag ttgcgttggc ttgtatgtc aatggagatt aaggagcatt 1080
44 attttgaggt ctgtgacatt atagatggct tattcgatc aatattttaa cacttgtctg 1140
45 aaaactgcaa gaaagaactc gaatcaataa acaggcgtt tccatttggaa cctctgaagt 1200
46 atctagacaa aacctttaag ctcacttatg aagaaggaat tcaaatttttgc aaggaagccg 1260
47 gaacagaaat cgagcctatg ggtgcacca ataccgaaatc tgagaaaaaaa cttggcggc 1320
48 ttgtcaggaa aaagtatgac acagatttt tcattctgtt tcggatccct ttggctgtac 1380
49 gtccgttcta caccatgcct tggatgaca acccagcgtt caccaattttt tttgtatgtct 1440
50 tcattcgagg cgaggagata atatctggag cacaaaggat acacactctt gagctgtgg 1500
51 ccaagcgcgc gacagagtgt ggaatcgacg tgagcactat ctcggcctac attgaatcc 1560
52 tcagctatgg cgtggccca cacggcggtt tcgggtggg tttggagagg gtgggtatgc 1620
53 tggatgtgc cctgaacaaac atcaggaaga cctccctgtt cccgcgcac ccgcagaggc 1680
54 tcgtgccgtt agtttctgtat tccaaggctt agtctcgag tggatgttgc agcagatccg 1740
55 atgttggatc catcagagtt gacttgcaat cttagcttgc gaaacctggc gttaccgtgg 1800
56 atcagagttc ctgttgcatt tcacaaaacg ctacttgcatt ctaatagatt gctgcaacca 1860
57 acaatattac gacccttgc ggctttttt cccgcctac gtgttattct ggtctataact 1920

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001
TIME: 16:27:17

Input Set : A:\Cpg.pto
Output Set: C:\CRF3\05242001\I846589.raw

58 tgttttaag tgcaagtatt gctcagtt 1948
 60 <210> SEQ ID NO: 2
 61 <211> LENGTH: 546
 62 <212> TYPE: PRT
 63 <213> ORGANISM: Zea mays
 65 <400> SEQUENCE: 2
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 1 5 10 15
 69 Leu Ala Ala Asp Leu Ser Ala Ala Thr Leu Ser Lys Lys Gln Gln Lys
 20 25 30
 72 Lys Asp Ala Arg Lys Ala Glu Lys Ala Glu Gln Arg Gln Arg Gln Gln
 35 40 45
 75 Gln Gln Gln Gln Pro Ala Asp Ala Glu Asp Pro Phe Ala Ala Asn
 50 55 60
 78 Tyr Gly Glu Val Pro Val Glu Glu Ile Gln Ser Lys Ala Ile Ser Gly
 65 70 75 80
 81 Arg Ser Trp Ser His Val Gly Asp Leu Asp Asp Ser Ala Ala Gly Arg
 85 90 95
 84 Ser Val Leu Ile Arg Gly Ala Ala Gln Ala Ile Arg Pro Val Ser Lys
 100 105 110
 87 Lys Met Ala Phe Val Val Leu Arg Gln Ser Met Ser Thr Val Gln Cys
 115 120 125
 90 Val Leu Val Ala Ser Ala Asp Ala Gly Val Ser Thr Gln Met Val Arg
 130 135 140
 93 Phe Ala Thr Ala Leu Ser Lys Glu Ser Ile Val Asp Val Glu Gly Val
 145 150 155 160
 96 Val Ser Leu Pro Lys Glu Pro Leu Lys Ala Thr Thr Gln Gln Val Glu
 165 170 175
 99 Ile Gln Val Arg Lys Ile Tyr Cys Ile Asn Arg Ala Ile Pro Thr Leu
 180 185 190
 102 Pro Ile Asn Leu Glu Asp Ala Ala Arg Ser Glu Ala Asp Phe Glu Lys
 195 200 205
 105 Ala Glu Leu Ala Gly Glu Lys Leu Val Arg Val Gly Gln Asp Thr Arg
 210 215 220
 108 Leu Asn Tyr Arg Ala Ile Asp Leu Arg Thr Pro Ser Asn Gln Ala Ile
 225 230 235 240
 111 Phe Arg Ile Gln Cys Gln Val Glu Asn Lys Phe Arg Asp Phe Leu Leu
 245 250 255
 114 Ser Lys Asn Phe Val Gly Ile His Thr Pro Lys Leu Ile Ser Gly Ser
 260 265 270
 117 Ser Glu Gly Gly Ala Ala Val Phe Lys Leu Leu Tyr Asn Gly Gln Pro
 275 280 285
 120 Ala Cys Leu Ala Gln Ser Pro Gln Leu Tyr Lys Gln Met Ala Ile Ser
 290 295 300
 123 Gly Gly Phe Glu Arg Val Phe Glu Val Gly Pro Val Phe Arg Ala Glu
 305 310 315 320
 126 Asn Ser Asn Thr His Arg His Leu Cys Glu Phe Val Gly Leu Asp Ala
 325 330 335
 129 Glu Met Glu Ile Lys Glu His Tyr Phe Glu Val Cys Asp Ile Ile Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001
TIME: 16:27:17

Input Set : A:\Cpg.pto
Output Set: C:\CRF3\05242001\I846589.raw

130	340	345	350
132	Gly Leu Phe Val Ser Ile Phe Lys His Leu Ser Glu Asn Cys Lys Lys		
133	355	360	365
135	Glu Leu Glu Ser Ile Asn Arg Gln Tyr Pro Phe Glu Pro Leu Lys Tyr		
136	370	375	380
138	Leu Asp Lys Thr Phe Lys Leu Thr Tyr Glu Glu Gly Ile Gln Met Leu		
139	385	390	395
141	Lys Glu Ala Gly Thr Glu Ile Glu Pro Met Gly Asp Leu Asn Thr Glu		
142	405	410	415
144	Ala Glu Lys Lys Leu Gly Arg Leu Val Arg Glu Lys Tyr Asp Thr Asp		
145	420	425	430
147	Phe Phe Ile Leu Tyr Arg Tyr Pro Leu Ala Val Arg Pro Phe Tyr Thr		
148	435	440	445
150	Met Pro Cys Tyr Asp Asn Pro Ala Tyr Thr Asn Ser Phe Asp Val Phe		
151	450	455	460
153	Ile Arg Gly Glu Glu Ile Ile Ser Gly Ala Gln Arg Ile His Thr Pro		
154	465	470	475
156	Glu Leu Leu Ala Lys Arg Ala Thr Glu Cys Gly Ile Asp Val Ser Thr		
157	485	490	495
159	Ile Ser Ala Tyr Ile Glu Ser Phe Ser Tyr Gly Val Pro Pro His Gly		
160	500	505	510
162	Gly Phe Gly Val Gly Leu Glu Arg Val Val Met Leu Phe Cys Ala Leu		
163	515	520	525
165	Asn Asn Ile Arg Lys Thr Ser Leu Phe Pro Arg Asp Pro Gln Arg Leu		
166	530	535	540
168	Val Pro		
169	545		
171	<210> SEQ ID NO: 3		
172	<211> LENGTH: 730		
173	<212> TYPE: DNA		
174	<213> ORGANISM: Oryza sativa		
176	<400> SEQUENCE: 3		
177	gcacgagctt acacggcacg agcttacagg aattcaaatg ctgaaggaag ctgaaacaga 60		
178	aatcgAACCC atgggtgacc tcaacactga agctgagaaa aaactaggcc ggcttgttaa 120		
179	ggagaagtat ggaacagaat ttttcatcct ctatcggtat cctttggctg tgctgtccctt 180		
180	ctacaccatg ctttgttatg acaacccacg ttacagtaac tcttttgatg tctttattcg 240		
181	aggagaggaa ataatatctg gagcacaaag aatacattt ccagagctat tgacgaaacg 300		
182	tgcAACAGAG tgtgaaattt atgcgagtagc tatttcatca tatatcgaaat cgtcagcta 360		
183	tggTGCACCT cctcatggtg gttttgggtt cggcctggag agggtggtaa tgctgttctg 420		
184	cGCCCTAAAC aacatcgagga agacatcaact tttccctcgc gatccacaaa ggctggtgcc 480		
185	ataatttgc ttTTTCCCAGAGCAAGGT ttggactcag tacggactgg gcagtttcc 540		
186	tcggctggtt ttTTTACCTG gacattttt tcgtatttat taatgtgctg tactgaaaaa 600		
187	gctgctcctt tccacaacat ttgaaatagt tgccgataca ttggaaatag ggctcaacgt 660		
188	tggcgTTGTG atttcgttga tgatcccgtt attcgtaaca aaaaaaaaaa aaaaaaaaaa 720		
189	aaaaaaaaaa 730		
191	<210> SEQ ID NO: 4		
192	<211> LENGTH: 148		
193	<212> TYPE: PRT		
194	<213> ORGANISM: Oryza sativa		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001
TIME: 16:27:17

Input Set : A:\Cpg.pto
Output Set: C:\CRF3\05242001\I846589.raw

196 <400> SEQUENCE: 4
 197 Met Leu Lys Glu Ala Gly Thr Glu Ile Glu Pro Met Gly Asp Leu Asn
 198 1 5 10 15
 200 Thr Glu Ala Glu Lys Lys Leu Gly Arg Leu Val Lys Glu Lys Tyr Gly
 201 20 25 30
 203 Thr Glu Phe Phe Ile Leu Tyr Arg Tyr Pro Leu Ala Val Arg Pro Phe
 204 35 40 45
 206 Tyr Thr Met Pro Cys Tyr Asp Asn Pro Ala Tyr Ser Asn Ser Phe Asp
 207 50 55 60
 209 Val Phe Ile Arg Gly Glu Ile Ile Ser Gly Ala Gln Arg Ile His
 210 65 70 75 80
 212 Leu Pro Glu Leu Leu Thr Lys Arg Ala Thr Glu Cys Gly Ile Asp Ala
 213 85 90 95
 215 Ser Thr Ile Ser Ser Tyr Ile Glu Ser Phe Ser Tyr Gly Ala Pro Pro
 216 100 105 110
 218 His Gly Gly Phe Gly Val Gly Leu Glu Arg Val Val Met Leu Phe Cys
 219 115 120 125
 221 Ala Leu Asn Asn Ile Arg Lys Thr Ser Leu Phe Pro Arg Asp Pro Gln
 222 130 135 140
 224 Arg Leu Val Pro
 225 145
 227 <210> SEQ ID NO: 5
 228 <211> LENGTH: 1109
 229 <212> TYPE: DNA
 230 <213> ORGANISM: Glycine max
 232 <400> SEQUENCE: 5
 233 gcacgaggc atcagagaga atggcttcac cgttcaatgc ttgggtcgagg cgcaggccga 60
 234 tacggtaggc ccgcagatgg tgaagttcgc cgctgcactc agccgcgagt ccatcgtcga 120
 235 tgtcgaaggc gttgttgc tcccctccgc tcccatcaaa ggcgccacac aacaggtgga 180
 236 aattcaagtg aggaagttgt attgtgtcag tagggctgta cctactctgc ctattaatct 240
 237 tgaggatgct gctcgaagtg aagttgaaat cgagacggct cttcaggctg gtgagcaact 300
 238 tgttcgtgtt aatcaggata cacgtctgaa ctttagggtg cttgatgtgc gaacgccagc 360
 239 taatcaaggg atttccgca ttccatctca agttggaaat gcgtttagac aattcttatt 420
 240 atctgaaggt ttttgtgaaa tccacactcc aaagttgata gctggatcta gtgagggagg 480
 241 agctgctgtt tttagactgg actacaaagg tcaacctgca tgcctggccc agtcaccta 540
 242 gtttcacaag caaatgtcta tttgtggaga ttttggccgt gttttgaga ttggccctgt 600
 243 gtttagagca gaagattctt acactcacag gcatctgtgt gagtttacag gtcttgatgt 660
 244 tgaatggag attaagaagc attacttga gtttatggat atagtcgata gattgttgt 720
 245 cgcaatgttt gacagttga accagaattt taagaaggat ctggaaagctg tcgggtctca 780
 246 gtatccattt gaaccttta agtatctgctg gacgacacta cggcttacat atgaagaagg 840
 247 gattcagatg ctcaaggatg ttggagtaga aattgaacct tatgtgtact tgaatactga 900
 248 agcggaaagg aaatgggtc agctagtc agagaatat ggcacagagt tctatatctt 960
 249 tcaccggtagc ccttggctg taaggccatt ctatacaatg ccttgctacg acaatcctgc 1020
 250 atacagcaac tcgtttagt tctttattcg aggtgaggag ataatttcag gagctcagcg 1080
 251 tggttcatgtg ccagaatttt tggaaacaag 1109
 253 <210> SEQ ID NO: 6
 254 <211> LENGTH: 369
 255 <212> TYPE: PRT
 256 <213> ORGANISM: Glycine max

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001
 TIME: 16:27:17

Input Set : A:\Cpg.pto
 Output Set: C:\CRF3\05242001\I846589.raw

258 <400> SEQUENCE: 6
 259 His Glu Val Ile Arg Glu Asn Gly Phe Thr Val Gln Cys Leu Val Gln
 260 1 5 10 15
 262 Ala Gln Ala Asp Thr Val Ser Pro Gln Met Val Lys Phe Ala Ala Ala
 263 20 25 30
 265 Leu Ser Arg Glu Ser Ile Val Asp Val Glu Gly Val Val Ser Ile Pro
 266 35 40 45
 268 Ser Ala Pro Ile Lys Gly Ala Thr Gln Gln Val Glu Ile Gln Val Arg
 269 50 55 60
 271 Lys Leu Tyr Cys Val Ser Arg Ala Val Pro Thr Leu Pro Ile Asn Leu
 272 65 70 75 80
 274 Glu Asp Ala Ala Arg Ser Glu Val Glu Ile Glu Thr Ala Leu Gln Ala
 275 85 90 95
 277 Gly Glu Gln Leu Val Arg Val Asn Gln Asp Thr Arg Leu Asn Phe Arg
 278 100 105 110
 280 Val Leu Asp Val Arg Thr Pro Ala Asn Gln Gly Ile Phe Arg Ile Gln
 281 115 120 125
 283 Ser Gln Val Gly Asn Ala Phe Arg Gln Phe Leu Leu Ser Glu Gly Phe
 284 130 135 140
 286 Cys Glu Ile His Thr Pro Lys Leu Ile Ala Gly Ser Ser Glu Gly Gly
 287 145 150 155 160
 289 Ala Ala Val Phe Arg Leu Asp Tyr Lys Gly Gln Pro Ala Cys Leu Ala
 290 165 170 175
 292 Gln Ser Pro Gln Leu His Lys Gln Met Ser Ile Cys Gly Asp Phe Gly
 293 180 185 190
 295 Arg Val Phe Glu Ile Gly Pro Val Phe Arg Ala Glu Asp Ser Tyr Thr
 296 195 200 205
 298 His Arg His Leu Cys Glu Phe Thr Gly Leu Asp Val Glu Met Glu Ile
 299 210 215 220
 301 Lys Lys His Tyr Phe Glu Val Met Asp Ile Val Asp Arg Leu Phe Val
 302 225 230 235 240
 304 Ala Met Phe Asp Ser Leu Asn Gln Asn Cys Lys Lys Asp Leu Glu Ala
 305 245 250 255
 307 Val Gly Ser Gln Tyr Pro Phe Glu Pro Leu Lys Tyr Leu Arg Thr Thr
 308 260 265 270
 310 Leu Arg Leu Thr Tyr Glu Glu Gly Ile Gln Met Leu Lys Asp Val Gly
 311 275 280 285
 313 Val Glu Ile Glu Pro Tyr Gly Asp Leu Asn Thr Glu Ala Glu Arg Lys
 314 290 295 300
 316 Leu Gly Gln Leu Val Ser Glu Lys Tyr Gly Thr Glu Phe Tyr Ile Leu
 317 305 310 315 320
 319 His Arg Tyr Pro Leu Ala Val Arg Pro Phe Tyr Thr Met Pro Cys Tyr
 320 325 330 335
 322 Asp Asn Pro Ala Tyr Ser Asn Ser Phe Asp Val Phe Ile Arg Gly Glu
 323 340 345 350
 325 Glu Ile Ile Ser Gly Ala Gln Arg Val His Val Pro Glu Phe Leu Glu
 326 355 360 365
 328 Gln
 331 <210> SEQ ID NO: 7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/846,589

DATE: 05/24/2001

TIME: 16:27:18

Input Set : A:\Cpg.pto

Output Set: C:\CRF3\05242001\I846589.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:14 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/846,589

DATE: 05/14/2001

TIME: 12:50:55

Input Set : A:\BB-1191 DIV SEQ LIST.txt
 Output Set: N:\CRF3\05142001\I846589.raw

3 <110> APPLICANT: Famodu, Layo O.
 4 Simmons, Carl R.
 6 <120> TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
 8 <130> FILE REFERENCE: BB-1191
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/846,589
 C--> 11 <141> CURRENT FILING DATE: 2001-05-01
 13 <150> PRIOR APPLICATION NUMBER: 60/092,866
 W--> 14 <151> PRIOR FILING DATE: July 15, 1998
 16 <160> NUMBER OF SEQ ID NOS: 29
 18 <170> SOFTWARE: Microsoft Office 97

Does Not Comply
 Corrected Diskette Needed

P. 2

ERRORED SEQUENCES

1753 <210> SEQ ID NO: 29
 1754 <211> LENGTH: 419
 1755 <212> TYPE: PRT
 1756 <213> ORGANISM: Bacillus caldotenax
 1758 <400> SEQUENCE: 29
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 1760 1 5 10 15
 1762 Thr Asp Glu Asp Gly Leu Arg Lys Leu Leu Asn Glu Glu Arg Val Thr
 1763 20 25 30
 1765 Leu Tyr Cys Gly Phe Asp Pro Thr Ala Asp Ser Leu His Ile Gly Asn
 1766 35 40 45
 1768 Leu Ala Ala Ile Leu Thr Leu Arg Arg Phe Gln Gln Ala Gly His Arg
 1769 50 55 60
 1771 Pro Ile Ala Leu Val Gly Gly Ala Thr Gly Leu Ile Gly Asp Pro Ser
 1772 65 70 75 80
 1774 Gly Lys Lys Ser Glu Arg Thr Leu Asn Ala Lys Glu Thr Val Glu Ala
 1775 85 90 95
 1777 Trp Ser Ala Arg Ile Lys Glu Gln Leu Gly Arg Phe Leu Asp Phe Glu
 1778 100 105 110
 1780 Ala Asp Gly Asn Pro Ala Lys Ile Lys Asn Asn Tyr Asp Trp Ile Gly
 1781 115 120 125
 1783 Pro Leu Asp Val Ile Thr Phe Leu Arg Asp Val Gly Lys His Phe Ser
 1784 130 135 140
 1786 Val Asn Tyr Met Met Ala Lys Glu Ser Val Gln Ser Arg Ile Glu Thr
 1787 145 150 155 160
 1789 Gly Ile Ser Phe Thr Glu Phe Ser Tyr Met Met Leu Gln Ala Tyr Asp
 1790 165 170 175
 1792 Phe Leu Arg Leu Tyr Glu Thr Glu Gly Cys Arg Leu Gln Ile Gly Gly
 1793 180 185 190
 1795 Ser Asp Gln Trp Gly Asn Ile Thr Ala Gly Leu Glu Leu Ile Arg Lys
 1796 195 200 205
 1798 Thr Lys Gly Glu Ala Arg Ala Phe Gly Leu Thr Ile Pro Leu Val Thr
 1799 210 215 220

RAW SEQUENCE LISTING DATE: 05/14/2001
 PATENT APPLICATION: US/09/846,589 TIME: 12:50:55

Input Set : A:\BB-1191 DIV SEQ LIST.txt
 Output Set: N:\CRF3\05142001\I846589.raw

1801	Lys	Ala	Asp	Gly	Thr	Lys	Phe	Gly	Thr	Glu	Ser	Gly	Thr	Ile	Trp		
1802	225				230				235						240		
1804	Leu	Asp	Lys	Glu	Lys	Thr	Ser	Pro	Tyr	Glu	Phe	Tyr	Gln	Phe	Trp	Ile	
1805						245				250					255		
1807	Asn	Thr	Asp	Asp	Arg	Asp	Val	Ile	Arg	Tyr	Leu	Lys	Tyr	Phe	Thr	Phe	
1808							260			265					270		
1810	Leu	Ser	Lys	Glu	Glu	Ile	Glu	Ala	Leu	Glu	Gln	Glu	Leu	Arg	Glu	Ala	
1811						275			280						285		
1813	Pro	Glu	Lys	Arg	Ala	Ala	Gln	Lys	Ala	Leu	Ala	Glu	Glu	Val	Thr	Lys	
1814						290			295						300		
1816	Leu	Val	His	Gly	Glu	Glu	Ala	Leu	Arg	Gln	Ala	Ile	Arg	Ile	Ser	Glu	
1817						305			310			315			320		
1819	Ala	Leu	Phe	Ser	Gly	Asp	Ile	Ala	Asn	Leu	Thr	Ala	Ala	Glu	Ile	Glu	
1820						325				330					335		
1822	Gln	Gly	Phe	Lys	Asp	Val	Pro	Ser	Phe	Val	His	Glu	Gly	Gly	Asp	Val	
1823						340			345			350					
1825	Pro	Leu	Val	Glu	Leu	Leu	Val	Ser	Ala	Gly	Ile	Ser	Pro	Ser	Lys	Arg	
1826						355			360			365					
1828	Gln	Ala	Arg	Glu	Asp	Ile	Gln	Asn	Gly	Ala	Ile	Tyr	Val	Asn	Gly	Glu	
1829						370			375			380					
1831	Arg	Leu	Gln	Asp	Val	Gly	Ala	Ile	Leu	Thr	Ala	Glu	His	Arg	Leu	Glu	
1832						385			390			395			400		
1834	Gly	Arg	Phe	Thr	Val	Ile	Arg	Arg	Gly	Lys	Lys	Lys	Tyr	Tyr	Tyr	Leu	Ile
1835						395			405			410			415		
1837	Arg	Tyr	Ala														
E--X	1840	1															

→ Please delete the extraneous numeral at
 the end of the file. It is causing an
 invalid amino acid count for sequence #29.

VERIFICATION SUMMARY DATE: 05/14/2001
PATENT APPLICATION: US/09/846,589 TIME: 12:50:56

Input Set : A:\BB-1191 DIV SEQ LIST.txt
Output Set: N:\CRF3\05142001\I846589.raw.

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:14 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:1840 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29